Clean Copy of Amended New Claims

23. A method of forming a patterned insulating film comprising: a step in which a coated film is formed of a photosensitive polysilazane composition comprising a polysilazane and a photoacid generator, a step in which said coated film is exposed to light in a pattern, a step in which the exposed portion of said coated film is dissolved off, and a step in which the patterned polysilazane film formed as a result of said dissolving off is allowed to stand in an ambient atmosphere or baked to convert it to a silica-based ceramic coating, wherein said polysilazane is

a polysilazane having a number-average molecular weight of between 100 to 50,000, that mainly contains the skeleton represented with the following general formula (I), or a modification product thereof containing such polysilazane, or

a polysilazane having a number-average molecular weight of between 100 to 100,000, that mainly contains the skeleton represented with the following general formula (II), and wherein

consisting of a peroxide, a naphthoquinone diazidosulfonate ester and a nitrobenzyl ester:

$$\begin{array}{c|c}
R^1 \\
\hline
-- \left(-Si - N - \right) \\
R^2 R^3
\end{array}$$

general formula (I):

wherein, R¹, R² and R³ respectively and independently represent a hydrogen atom, an alkyl group, an alkenyl group, a cycloalkyl group, an aryl group, a group other than these groups in which the portion bonded directly to silicon or nitrogen is carbon, an alkylsilyl group, an alkylamino group or an alkoxy group;

general formula (II):

$$--(SiR^4(NR^5)_{1.5})_n$$
 (II)

wherein, R⁴ and R⁵respectively and independently represent a hydrogen atom, an alkyl group, an alkenyl group, a cycloalkyl group, an aryl group, a group other than these groups in which the portion bonded directly to silicon or nitrogen is carbon, an alkylsilyl group, an alkylamino group or an alkoxy group, and n is an arbitrary integer.

- **24.** A method of forming a patterned insulating film according to claim 23, wherein said polysilazane is a polyorganosiloxazane having a number-average molecular weight of between 300 to 100,000 that contains, as its main repeating unit, -(RSiN₃)-, (RSiN₂O)-, -(RSiNO₂)- and -(RSiO₃)- in which R is an alkyl group, an alkenyl group, a cycloalkyl group, an aryl group, and alkylamino group or an alkylsilyl group.
- **25.** A method of forming a patterned insulating film according to claim 23, wherein said peroxide is t-butyl peroxybenzoate, 3,3 $^{\circ}$,4,4 $^{\circ}$ -tetra(t-butylperoxycarbonyl) benzophenone or α , α $^{\circ}$ -bis(t-butylperoxy)diisopropylbenzene.
- **26.** A method of forming a patterned insulating film according to claim 23, wherein said photoacid generator further contains an sensitizing dye.
- **27.** A method of forming a patterned insulating film according to claim 26, wherein said sensitizing dye is selected from coumarin, ketocoumarin and their derivatives and thiopyrylium salts.
- 28. A method of forming a patterned insulating film according to claim 23, wherein said photosensitive polysilazane composition further contains an oxidation catalyst.
- **29.** A method of forming a patterned insulating film according to claim 28, wherein said oxidation catalyst is palladium propionate.